

## **ABSTRACT**

A manufacturing fixture (11) for manufacturing a permanent magnet (24) for an actuator motor (20) of a disk drive (10) is provided herein. The manufacturing fixture (11) includes a fixture cavity (102) which receives the magnet powder (48) and an orientating device (108) which generates flux lines (110) which extend across the fixture cavity (102). The fixture cavity (102) includes a cavity axis (118), a cavity transition (116) and a cavity perimeter (124). Importantly, the flux lines (110) extend substantially transverse to the cavity axis (118) near the cavity transition (116) and the cavity perimeter (124) and substantially parallel with the cavity axis (118) intermediate the cavity transition (116) and the cavity perimeter (124). This allows for a magnet (24) having higher magnetic flux densities at the sides (54) (56) (58), and higher average magnetic flux densities in the magnet (24).

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